California Regional Water Quality Control Board
San Francisco Bay Region

1515 Clay Street, Suite 1400, Oakland, California 94612
(510) 622-2300 • Fax (510) 622-2460
http://www.waterboards.ca.gov/sanfranciscobay

Linda S. Adams
Secretary for
Environmental Protection

Arnold Schwarzenegger
Governor

Clean-up Activity Fact Sheet: San Jose Bulk Fuel Terminal #100-1272

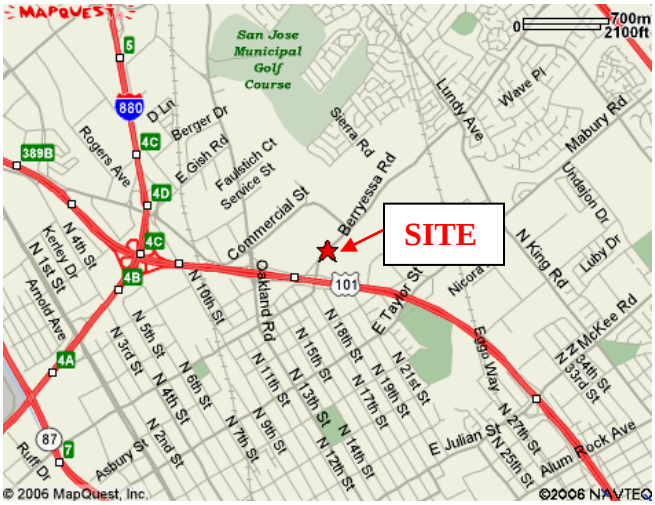
1020 Berryessa Road, San Jose, CA

October 2006

INTRODUCTION

The San Francisco Bay Regional Water Quality Control Board (Water Board) has prepared this fact sheet is to provide information about the status of ongoing cleanup activities at the San Jose Bulk Fuel Terminal (Facility) located at 1020 Berryessa Road in San Jose, California. This fact sheet summarizes information contained in project documents and is intended to facilitate community awareness.

SITE LOCATION AND MAP



The Facility is located near the intersection of Berryessa Road and Highway 101. The Facility is bound on the northwest by Berryessa Road and by Mabury Road to the south. Land use in the immediate area is entirely industrial. The Facility has been in operation since the mid-1960s, storing, receiving and distributing refined petroleum products (gasoline, diesel, jet fuel, heating oil, kerosene, MtBE and ethanol) from the Richmond Refinery via a pipeline. Various petroleum fuels are stored in above ground storage tanks (ASTs) and are distributed to the Mineta San Jose International Airport and retail gasoline stations via tanker truck.

BACKGROUND

Several leaks and spills of refined petroleum products from underground storage tanks (USTs), ASTs, pipelines, and the truck loading rack have occurred during the operational history of the Facility. Site investigations indicate that these leaks and spills have affected site soil and groundwater.

CLEANUP (REMEDIATION) HISTORY

Chevron, with regulatory oversight and approval from the Water Board, has conducted extensive environmental investigations to determine the sources and extent of contamination of site soil and groundwater, and to control and cleanup the contamination. In summary, these include:

- 1984 to 2001 - The installation of 68 monitoring or extraction wells.
- 1994 – present - Routine (i.e., quarterly) ground water monitoring and reporting to the Water Board.
- March 2000 to September 2000 - The operation of a groundwater pump and treatment system to treat petroleum-contaminated groundwater.
- 2005 - The drilling of 50 soil borings and installation of six new groundwater monitoring wells to better characterize subsurface soil and groundwater conditions.
- May 2005 - The conditional approval of a Revised Corrective Action Plan (RCAP) for site cleanup that recommends cleanup methods for site groundwater. The RCAP is discussed in further detail under the Current Project Description heading presented below.

The Facility also operates a storm water/contact water treatment system that removes petroleum hydrocarbons from Facility storm water/contact water prior to discharge. The storm water/contact water is routed through carbon treatment prior to storage in a lined, onsite retention pond. Water collected in the

pond is sampled prior to discharge to a storm drain under discharge permit regulated by the Water Board.

RISK

Potential pathways for human health risk have been evaluated, and are summarized below:

Air Quality – A Risk Based Corrective Action (RBCA) Assessment Report was prepared for Chevron in April 2005. The results of this study show that no significant health risks to on-site commercial/industrial workers or utility workers will occur from volatile organic compounds (VOCs) which may originate from released petroleum products or from breathing (inhalation) of VOCs volatilized from open trench water. Subsurface conditions at the Facility are not expected to pose an inhalation risk to employees or visitors.

Skin Contact – Given that the Facility is almost entirely paved with concrete and asphalt, there is no possibility of contact with subsurface impacted soil or groundwater by the public or Facility employees during normal operating conditions. However, skin contact with soil or ground water by employees during construction of remedial systems or repair of Facility infrastructure is possible. Therefore, the mandatory use of engineering controls (i.e., health and safety training, personal protective clothing, and monitoring equipment) by trained personnel is required when construction activities are conducted at the Facility.

Surface Water and Drinking Water – The nearest surface water body is Coyote Creek, approximately 1200 feet northeast of the Facility. The potential for petroleum hydrocarbon-impacted water to enter Coyote Creek is unlikely. As described above, storm water is treated, routed to a retention pond, and discharged under a general storm water permit. The nearest municipal drinking water well is reportedly located 1,700 feet from the Facility. This well draws water from a deeper, water-bearing zone which is isolated from the shallow contaminated water bearing zone. Given the location of the municipal well relative to the Facility's location and its depth, ground water intake via drinking does not pose a human health risk.

CURRENT PROJECT DESCRIPTION AND PROJECT BENEFITS

The May 2005 RCAP requires Chevron to:

- Design and install a soil vapor extraction (SVE) system to clean up volatile petroleum hydrocarbons present in soil.
- Design and install a bio-sparge system to clean up petroleum hydrocarbons in groundwater through the injection of oxygen and/or nutrients into the groundwater to promote biodegradation (i.e., natural break down).

The remediation system is expected to reduce levels of petroleum hydrocarbons in soil and ground water at the fuel terminal and prevent any off-site migration of petroleum hydrocarbons to neighboring properties.

Pilot testing of the remediation system was completed in March 2006. Design of the remediation system was completed in May 2006, and was permitted to be built by the City of San Jose in July 2006. In August 2006, 40 new SVE and air sparge wells were installed at the Facility and all trenching and piping to the remediation system were installed. Full scale operation of the remediation system will begin in October 2006.

FOR MORE INFORMATION

The Water Board staff is available to answer questions and discuss the Chevron Berryessa Cleanup Project. Please contact the following web link and Water Board representative:

James D. Ponton Project Manager
Water Board – San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612
(510) 622-2492
jponton@waterboards.ca.gov

PROJECT DOCUMENTS

The Chevron San Jose Bulk Fuel Terminal Site Cleanup Requirements, RCAP, and other project related documents are available for review at:

Regional Water Quality Control Board - San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

Internet at:
http://www.waterboards.ca.gov/sanfranciscobay/pub_notice.htm